<u>CLAIMS</u>

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What is claimed is:

1. An apparatus comprising:

2	a housing;
3	a mainboard including memory and a first processor mounted
4	within the housing;
5	a first network interface having a first network port and a first
6	address connected to the first processor;
7	at least one expansion slot for receiving a peripheral device: and
8	a network communications link connecting the first network
9	interface to said at least one expansion slot substantially disposed within
10	the housing,
11	wherein the first processor is enabled to communicate with a
12	peripheral device having a build-in network interface by transmitting data
13	via the first network interface and the built-in network interface over the
14	network communications link using a network transmission protocol.
1	2. The apparatus of claim 1, further comprising a second network
2	interface disposed on the mainboard in proximity to said at least one
3	expansion slot having a second address and a second network port to
4	enable communication between the first processor and a peripheral

- 5 device that does not include a built-in network interface when the
- 6 peripheral device is mounted in one of said at least one expansion slots. .
- 1 3. The apparatus of claim 1, wherein the network communications
- 2 link comprises a network bus embedded in the mainboard.
- 1 4. The apparatus of claim 1, wherein the first network interface and
- 2 the communications link comprise an Ethernet subnet.
- 5. The apparatus of claim 1, further comprising:
- 2 a second processor; and
- a second network interface connected to the second processor and
- 4 the network communications link to enable communication between the
- 5 second processor and a peripheral device having a built-in network
- 6 interface.
- 1 6. A system comprising:
- a computing machine including a housing and a mainboard to
- 3 which memory and a first processor are connected, providing a first
- 4 network interface having a first network port and a first address;
- 5 a first peripheral device disposed within the housing;

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- 6 a second network interface providing a second network port and a 7 second network address linked in communication with the first peripheral 8 device;
- 9 a communications link between the first and second network 10 interfaces substantially disposed within the housing; and software comprising machine instructions that are executable by

12 the first processor that includes a socket application interface (API) that 13 binds the address of the first peripheral device to the second network port 14 and a network interface abstraction layer that provides an abstracted 15 interface that enables an application to communicate with the first 16 peripheral device using a networking protocol.

- 7. The system of claim 6, wherein the communications link and the first and second network interfaces comprise an Ethernet subnet.
- 1 8. The system of claim 6, wherein the communication link 2 comprises a network signal bus built into the mainboard.
 - 9. The system of claim 6, wherein the communications link comprises a token ring.
- 1 10. The system of claim 6, wherein the second network interface is 2 built into the first peripheral device;

- 1 11. The system of claim 6, wherein the second network interface is built into the mainboard.
- 1 12. The system of claim 6, wherein the peripheral device
- 2 comprises one of a video subsystem, a memory subsystem, a disk
- 3 controller and a modem.
- 1 13. The system of claim 6, wherein the mainboard further includes 2 a second processor connected to a third network interface having a third
- 3 network address and network port connected to the communications link.
- 1 14. A method for enabling communication between a peripheral device disposed within a computing machine having a processor and an application running on the processor, comprising:
- providing a network interface for each of the processor and the peripheral device;
- providing a communication link between the network interfaces of
 the processor and the peripheral device;
- 8 creating a network socket for each of the processor and the 9 peripheral device;
- establishing a connection between the processor and theperipheral device;

12	generating messages with the application;
13	transferring the messages between the processor and the
14	peripheral device using a network transmission protocol.
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1	16. The method of claim 15, wherein the network transmission
2	protocol comprises the TCP/IP protocol.
1	17. The method of claim 15, further comprising applying security

- 2 measures to determine if an application may connect to a particular
- 3 peripheral device.
- 1 18. The method of claim 15, wherein the network transmission
 2 protocol comprises the UDP protocol.
- 19. The method of claim 15, wherein the communications link and
 the network interfaces comprise an internal Ethernet network.
- 1 20. The method of claim 15, wherein the communications link and
- 2 the network interfaces comprise an internal token ring network.